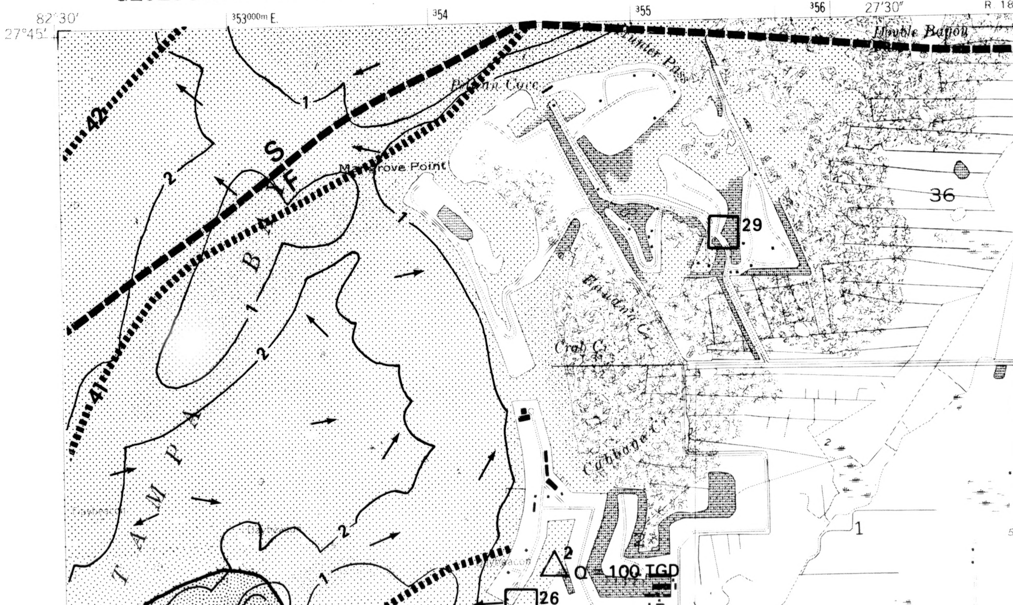
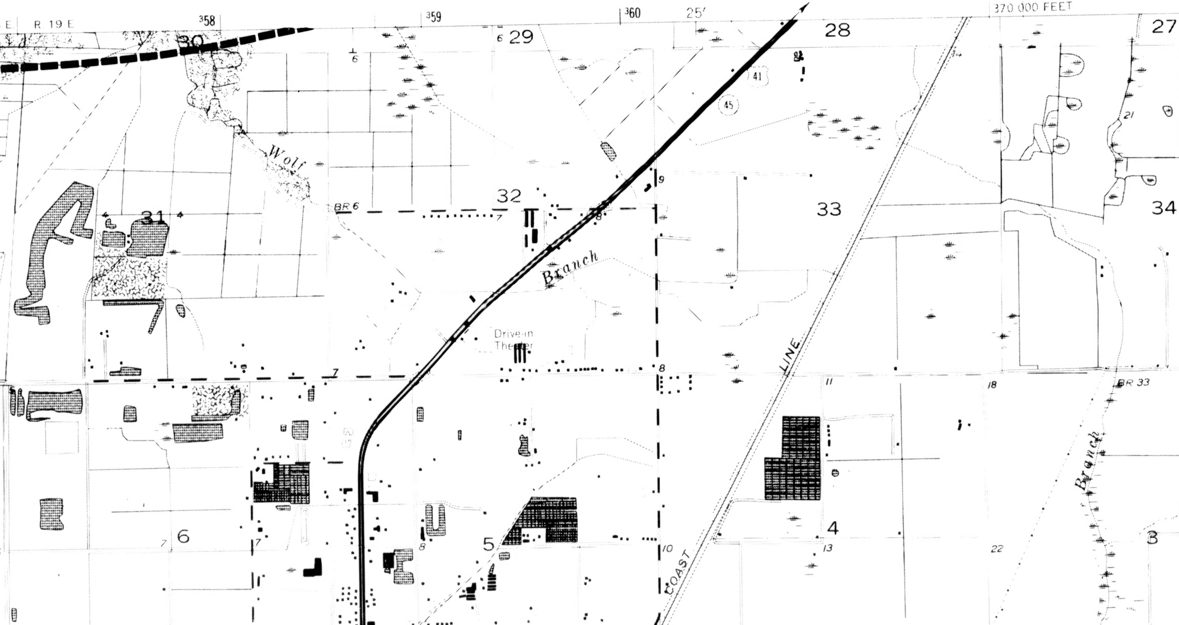
I49.89/2:85(15) map B17

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

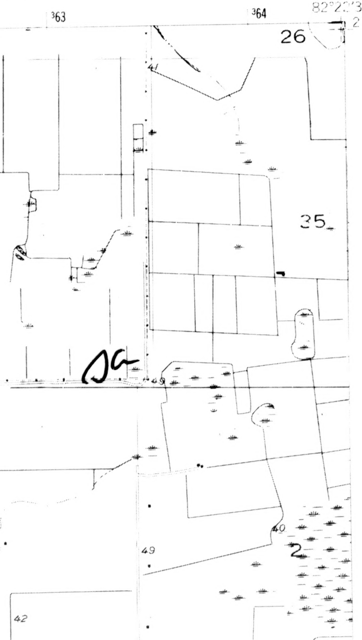

82°30′
27°45′
353000m E.
354
355
356
27′30″
R. 18
Double Bayou
Under Pass
Pelican Cove
Mangrove Point
TAMPA BAY
S
F
42
41
1
2
29
36
Crab Cr.
Cabbage Cr.
2
Q = 100 TGD
26


R 19 E
358
359
360
25′
370 000 FEET
30
6
29
28
27
41
45
Wolf
Branch
BR 6
32
31
33
34
9
8
7
4
21
Drive-in Theater
LINE
COAST
11
18
BR 33
Branch
6
5
4
3
10
13
22

MAY 19 '88

I 49.89/2:85(15) map B17

RUSKIN QUADRANGLE
FLORIDA
7.5 MINUTE SERIES (TOPOGRAPHIC)


363
364
82°22'30"
27°45'
26
41
35
49
40
2
49
42

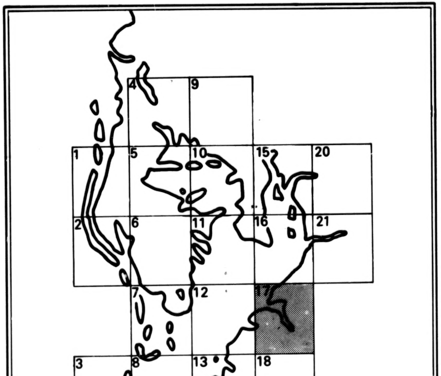
MAP B17

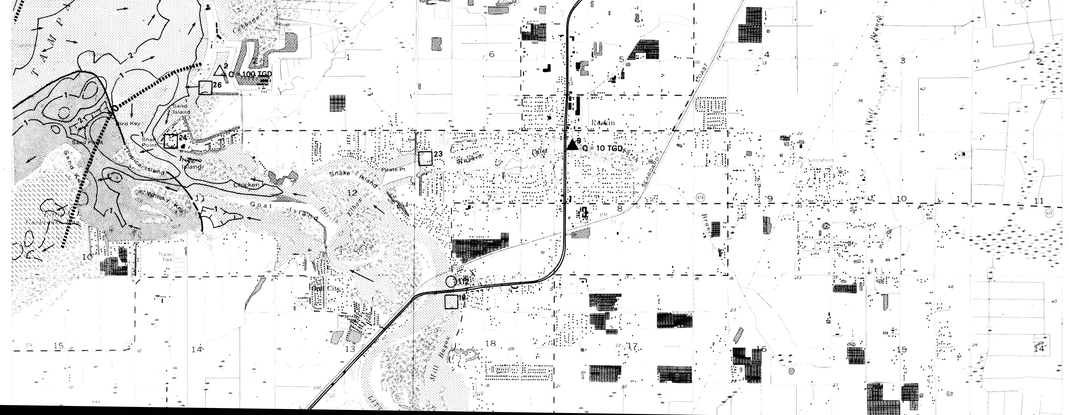
ORIGINAL

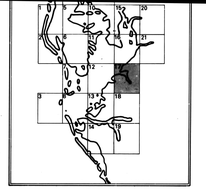
TAMPA BAY ENVIRONMENTAL ATLAS

WATER RESOURCES

RUSKIN


4
9
1
5
10
15
20
2
6
11
16
21
7
12
17
3
8
13
18





Scale 1:24,000

1984

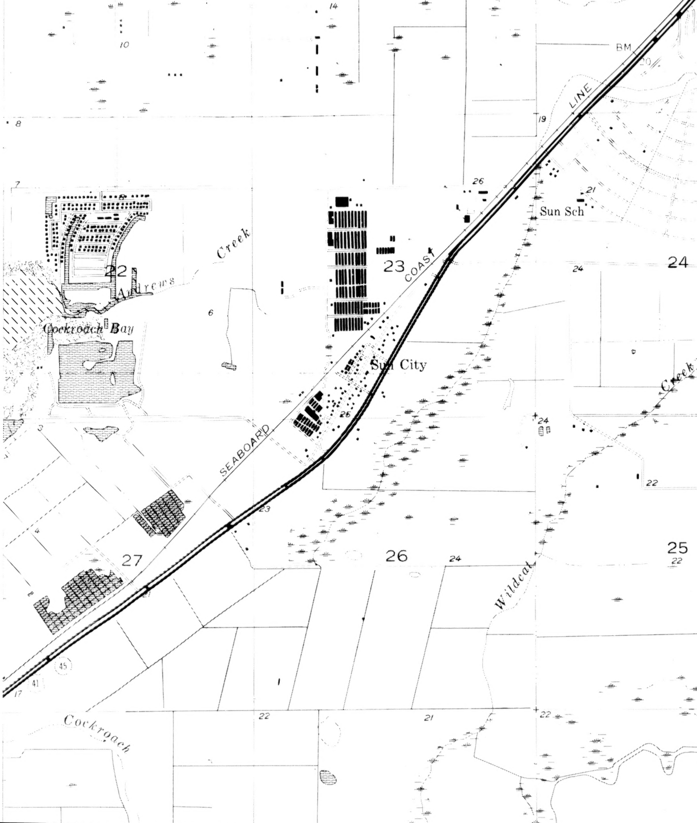
TOPICAL MAPS IN THIS ATLAS:

A. BIOLOGICAL RESOURCES
B. WATER RESOURCES

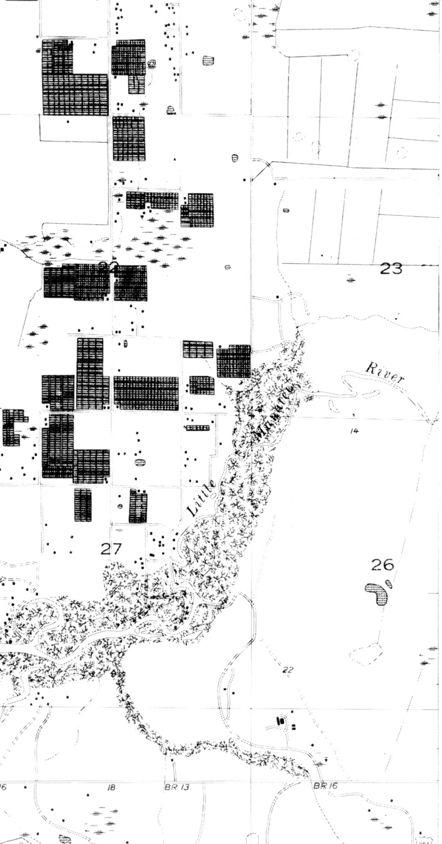
Produced by U.S. Fish and Wildlife Service
Projection and 1,000 meter grid, zone 17, Universal Transverse Mercator
10,000-foot grid ticks based on Florida coordinate system, east and west zones

Overlay material compiled in 1984 from latest available data obtained from Federal, State and Local government agencies and other sources.

There is no map #19 due to a lack of data


14
10
8
7
BM
20
LINE
19
26
21
Sun Sch
24
24
22
Creek
Andrews
Cockroach Bay
6
23
COAST
Sun City
26
24
Creek
3
SEABOARD
22
23
27
26
24
25
22
Wildcat
4
45
41
17
1
22
21
22
Cockroach

LITTLE MANATEE RIVER
Hayes Bayou
Bolster Bayou
Ruskin Cem
19
20
21
28
29
30
18
21
22
28
33
16
22
21
24
21
27
21
11
9
21
24
13
23
23
21
16
20
24
12


23
River
Little Manatee
14
27
26
22
16
18
BR 13
BR 16

system, east and west zones

Overlay material compiled in 1984 from latest available data obtained from Federal, State and Local government agencies and other sources.

There is no map A19 due to a lack of data.

LEGEND

▮▮▮▮▮35▮▮▮▮▮ **MEAN ANNUAL MID-DEPTH SPECIFIC CONDUCTIVITY ISOPLETH (WATER QUALITY) CONTOUR MAP**

Five year mean annual specific conductivity
September 1978 - August 1983
(mmhos)

POINT SOURCE DISCHARGES *

▲10 Q=___ Industrial Point Source Discharge. Q is permitted capacity in total gallons per day (tgd) or in millions of gallons per day (mgd).

△10 Q=___ Municipal Point Source Discharge. Q is permitted capacity in total gallons per day (tgd) or millions of gallons per day (mgd).

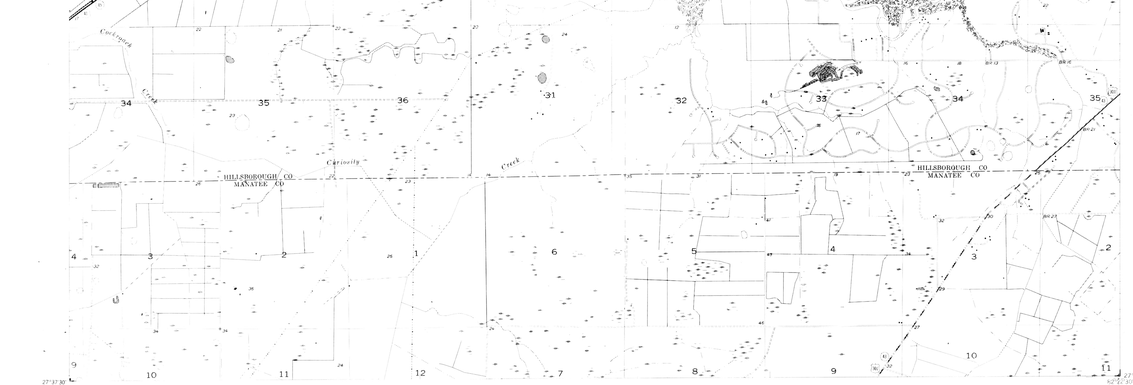
Dredge Spoil Area **DREDGE SPOIL DISPOSAL SITES**

TIDE STATION *
(National Ocean Service)

☼10 Active tide station. The tide station number is listed next to the symbol.

☐10 Inactive tide station location. The tide station number is listed next to the symbol.

○10 **WATER QUALITY SAMPLING STATION ***
(Hillsborough County Environmental Protection Commission)
Five year seasonal means, Sept. 1978 - Aug. 1983



SCALE 1:24000

Active tide station. The tide station number is listed next to the symbol.

10 Inactive tide station location. The tide station number is listed next to the symbol.

10 WATER QUALITY SAMPLING STATION *
(Hillsborough County Environmental Protection Commission)
Five year seasonal means, Sept. 1978 - Aug. 1983

2 BATHYMETRY
The contour interval is 2.0 meters with an initial 1.0 meter supplemental contour line added to better define shoals and inshore tidal flats.

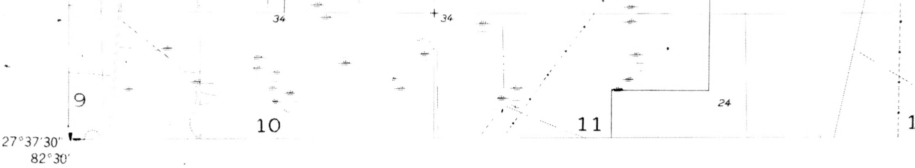
INTERTIDAL ZONE
This zone demarcates the area exposed and flooded by the tides and occurs between the line and the shore.

GENERALIZED SEDIMENT MAP
- Sand
- Shelly Sand
- Silty Sand
- Clayey Sand
- Sandy Clay
- Silt

NET TIDAL CURRENT
Resultant tidal current. The direction is indicated by the arrow and the discharge range is feet per second
- 0.01 - 0.10 ft/sec
- 0.11 - 0.20 ft/sec
- 0.21 - 0.30 ft/sec
- 0.31 - 0.50 ft/sec
- > 0.50 ft/sec

F S FRESHWATER/SALTWATER INTERFACE
(U.S. Geological Survey 1979)
250 mg/l line of equal chloride concentration in the upper part of Floridan aquifer

MICROCO



THE TAMPA BAY ENVIRONMENTAL ATLAS WAS PRODUCED BY THE U.S. FISH AND WILDLIFE SERVICE, DIVISION OF BIOLOGICAL SERVICES NATIONAL COASTAL ECOSYSTEMS TEAM (FWS/OBS) FOR COASTAL PLANNERS, DECISION MAKERS AND THE GENERAL PUBLIC, TO DETERMINE AND EVALUATE CHANGE AND TO RESOLVE CONFLICTS AMONG LAND USES, FISH AND WILDLIFE REQUIREMENTS, AND THE MAINTENANCE OF ECOLOGICAL DIVERSITY. THE STUDY AREA INCLUDES A MAJOR PORTION OF THE COASTAL COUNTIES OF PINELLAS, HILLSBOROUGH, MANATEE, AND A SMALL PORTION OF SARASOTA. THERE IS NO ATTEMPT, IN THE DESIGN OR PRODUCTS OF THIS STUDY, TO DEFINE THE LIMITS OF PROPRIETARY JURISDICTION OF ANY FEDERAL,STATE, OR LOCAL GOVERNMENT TO ESTABLISH THE GEOGRAPHICAL SCOPE OF THE REGULATORY PROGRAMS OF GOVERNMENT AGENCIES.

THIS MAP HAS BEEN COMPILED FROM A VARIETY OF SOURCE MATERIALS INCLUDING MAPS, AERIAL PHOTOS, AND REPORTS. SINCE MANY SOURCES CONTAINED GENERALIZED LOCATIONS OF RESOURCES AND OTHER MAPPED FEATURES, THE USER SHOULD NOT RELY ON THESE MAPS FOR PRECISE MEASUREMENTS OF DISTANCES OR AREAS.

PRIMARY SOURCES OF MAPPED INFORMATION

SALINITY: Conductivity for Tampa Bay water quality sampling stations Sept. 1978 - August 1983. Hillsborough County Environmental Protection Commission.

POINT SOURCE DISCHARGES: Computer printout of industrial and municipal point source discharges in West Central Florida. Florida Dept. of Environmental Regulation, 1983.

DREDGE SPOIL DISPOSAL AREAS: Dredge and Spoil easement location maps. Florida Dept. of Natural Resources.

N.O.S. TIDE STATIONS: Index of tide stations for the state of Florida. National Ocean Service, Rockville, Md. 1981.

WATER QUALITY: Total chlorophyll, conductivity, turbidity, temperature and total nitrogen data for Tampa Bay water quality stations, Sept. 1978 - August 1983. Hillsborough County Environmental Protection Commission.

BATHYMETRIC: Bathymetric map to St. Petersburg Quadrangle, N.O.S. 1978.

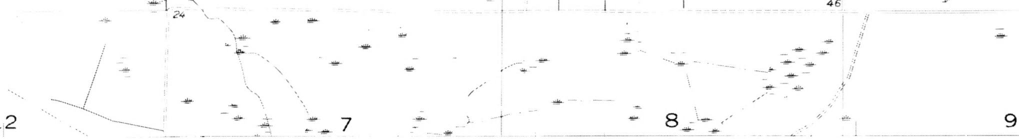
INTERTIDAL ZONE: Nautical Chart #'s 11410, 11413, 11414 and 11425. N.O.S., Rockville, Md. 1983.

SEDIMENTS: Sediments, oceanographic observations and Floristic data for Tampa Bay, Florida and adjacent waters, 1961-1965, Taylor and Saloman, 1969.

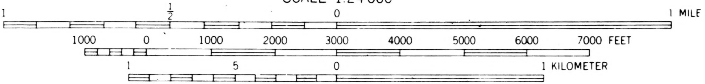
TIDAL CURRENTS: Changes in tidal flow, circulation and flushing caused by dredge and fill in Tampa Bay, Florida. U.S. Geological Survey Open File Report #84-447. Goodwin, 1984.

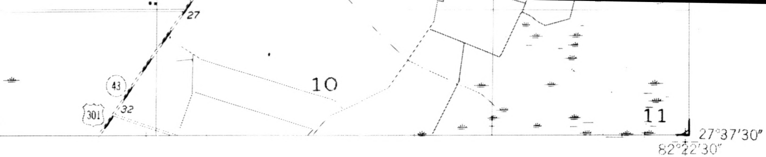
FRESHWATER-SALTWATER INTERFACE: Position of the Freshwater-Saltwater interface in the upper part of the Floridan aquifer, Southwest Florida, 1979. U.S.G.S. water resources open-file report 82-90. Causseaux and Fretwell, 1982.

FOR COMPLETE REFERENCE SEE MAP NARRATIVE



SCALE 1:24 000





→ 0.11 - 0.20 ft/sec

→ 0.21 - 0.30 ft/sec

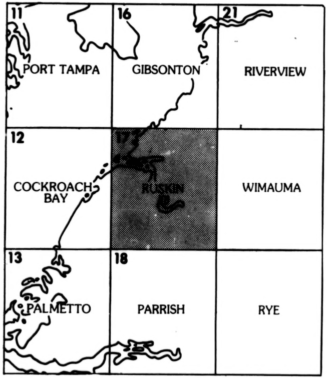
→ 0.31 - 0.50 ft/sec

→ > 0.50 ft/sec

F ▬▬▬▬▬ S **FRESHWATER/SALTWATER INTERFACE**

(U.S. Geological Survey 1979)
250 mg/l line of equal chloride
concentration in the upper part
of Floridan aquifer.

**Symbols appearing with numbers are describ*
more fully in the narrative



Note: Specific conductivity values on the supplemental legend should be in μmhos.

Supplemental Legend for Water Quality Statio

Station #112 **Lat. 27°42'15"** **Long. 82°26'50"**

PARAMETER	SPRING (3-5)	SUMMER (6-8)	FALL (9-11)	WINTER (12-2)
Total Chlorophyll (ug/l)	No Data	No Data	No Data	17.1
Conductivity (mmhos)	20643	22927	13120	17761
Turbidity (NTU'S)	3.8	4.1	3.8	2.9
Temperature (°C)	23.8	29.3	25.3	14.7
Total Nitrogen (mg/l)	1.02	1.16	1.02	0.95

MICROFILMED F
BEST AVAILABLE

ped

ns on This Map

ANNUAL (1-12)
—
18613
3.6
23.3
1.04

ROM
COPY

EST CHART
2)

SNELLEN
L10
L11
L25
L14
L16

L10
L11
L25
L14
L16